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| 10/804,619 | 03/19/2004 | Jin Feng | 16-563 | 7852 |
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| MICROSOFT CORPORATION ONE MICROSOFT WAY REDMOND, WA 98052-6399 | | | EXAMINER ALVESTEFFER, STEPHEN D | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2173 | |

| SHORTENED STATUTORY PERIOD OF RESPONSE | NOTIFICATION DATE | DELIVERY MODE |
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Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

10/804,619

Applicant(s)

FENG ET AL.

Examiner

Stephen Alvesteffer

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>See Continuation Sheet</u> . | 6) <input type="checkbox"/> Other: ____ |

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :20050907, 20050324, and 20050627.

DETAILED ACTION

Claims 1-30 are presented for examination. Claims 1, 6, 15, 21, and 25 are independent claims. The Information Disclosure Statements filed on June 27, 2005, August 24, 2005, and September 9, 2005 have been considered by the examiner.

Claim Objections

Claim 10 is objected to because of the following informalities:

- "herein" on line 22 should be corrected to –wherein—

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Canon Kabushiki Kaisha (hereinafter Canon), European Patent Application number EP 1 205 843 A.

Regarding claim 1, Canon teaches a system for use in client/server computing comprising a client (user interface device) that interfaces with an applications program (user interface application) (see paragraph [0010]); a server (processor-controlled machine) in communication with the client (user interface device) that responds to a

request from the applications program (user interface application) communicated to the server (processor-controlled machine) by the client (user interface device) for services available through said server (processor-controlled machine) (see paragraph [0008]); and a user interface manager (series of filters) that communicates with the server (processor-controlled machine) by means of an asynchronous communications channel (remote communications interface) between the server (processor-controlled machine) and the client (user interface device) and further wherein the user interface component (display device) responds to a user interface message (XML device description) sent from the server (processor-controlled machine) to display information to a user.

The examiner understands asynchronous communication to mean network communication where the client or the server can send information to each other at any time. Using this understanding, Canon teaches that the remote communications interface behaves asynchronously (see paragraph [0085]).

The invention as taught by Canon passes device descriptions in the form of XML documents between the client and the server (see paragraphs [0058], [0059], and [0060]).

The device descriptions are language neutral, that is, there is only one format of device descriptions that is interpreted by a plurality of different clients in a plurality of different ways (see paragraph [0008], last sentence).

Regarding claim 2, Canon teaches that the server (processor-controlled machine) transmits a language neutral message (XML device description) across the asynchronous communications channel (remote communications interface) with

information for displaying to the user and wherein the user interface manager (series of filters) includes an interpreter (filter) for the message (XML device description) (see paragraph [0010]).

Regarding claim 3, Canon teaches that the user interface manager (series of filters) includes a custom message interpreter (personalization filter) for converting the language neutral message (XML device description) into a language specific message (filtered XML device description) on a display (see paragraph [0043]).

Regarding claim 4, Canon teaches a resource file and wherein the user interface manager (series of filters) custom message interpreter (personalization filter) accesses resources in said resource file during display of said language specific message (filtered XML device description) (see paragraph [0044]).

Regarding claim 5, Canon teaches that the applications program (user interface application) includes a print capability and wherein the server (process-controlled machine) is executing on a print server computer (process-controlled machine) for servicing print requests from one or more client computers (user interface devices) (see paragraph [0028]). Note that the process-controlled machine of Canon can be a print server computer (see paragraph [0028]).

Claim 6 recites a system with substantially the same limitations as the system of claim 1, wherein the server is a print server. Canon teaches that the processor-controlled machine is a print server in one embodiment (see paragraph [0028]).

Regarding claim 7, Canon teaches a user display and wherein the message (XML device description) sent to the client (user interface device) user interface

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manager (series of filters) is a language neutral message (XML device description) that is interpreted (filtered) by the user interface manager (series of filters) and converted to another representation for the user display (see paragraph [0027]).

Regarding claim 8, Canon teaches that the client user interface manager (series of filters) converts a globally unique identifier from the server (processor-controlled machine) to a user understandable message on said display (see paragraph [0026]). The resource identifiers must inherently be globally unique or the system would have no way to match the correct message with the identifier.

Regarding claim 9, Canon teaches a print spooler residing on a client computer (user interface device) and wherein print spooler receives data from the applications program (user interface application) for transmission to the print server (processor-controlled machine) and also wherein the print spooler communicates a message to the user interface manager (series of filters) upon receipt of a print request from the application program (user interface application) (see paragraph [0028]). Although the Canon reference does not explicitly mention a print spooler, a print spooler is a necessary component of all modern printer systems.

Regarding claim 10, Canon teaches that the user interface manager (series of filters) sets up an asynchronous notify channel (remote communications interface) to the print server (processor-controlled machine) for passing data related to the print request from the client print spooler to the server (processor-controlled machine) (see paragraph [0085]).

Regarding claim 11, Canon teaches that the print server (processor-controlled machine) sends a language neutral message through the asynchronous notify channel (remote communications interface) based on status of a print job being serviced by the print server (processor-controlled machine) (see paragraph [0028]).

Regarding claim 12, Canon teaches that the print server (processor-controlled machine) transmits messages into the user interface manager (series of filters) in response to a set up message from the user interface manager (see paragraph [0055]).

Regarding claim 13, Canon teaches that the user interface manager (series of filters) interprets the message (XML device description) and loads an executable component that responds to receipt of a said message (XML device description) based on the contents of said message (XML device description) (see paragraph [0006]).

Regarding claim 14, Canon teaches that the executable component accesses resources used by the executable component to display a message on a display monitor (see paragraph [0006]).

Regarding claim 15, Canon teaches a method of printing data originating from one or more clients (user interface devices) on a printer comprising providing a print spooler interface for an application (user interface application) to communicate with a client (user interface device) which in turn communicates with a print server (processor-controlled machine); said print spooler interface enabling the applications to call a service routine on the print server (processor-controlled machine) by means of a procedure call initiated by the application (user interface application); and responding to language neutral messages from the print server (processor-controlled machine)

relating to a status of one or more printers communicating with the print server (processor-controlled machine) by interpreting the message and presenting a display to said message understandable by a user relating to the status of the said one or more printers (see paragraph [0028]).

Claims 16-19 recite a method with substantially the same limitations as claims 8-11, respectively. Therefore, claims 16-19 are rejected under the same rationale.

Claim 20 recites a method with substantially the same limitations as claims 13 and 14. Therefore, claim 20 is rejected under the same rationale.

Claims 21-24 recite a method with substantially the same limitations as claims 15-18, respectively. Therefore, claims 21-24 are rejected under the same rationale.

Claim 25 recites a computer readable medium with substantially the same limitations as claim 15. Therefore, claim 25 is rejected under the same rationale.

Regarding claim 26, Canon teaches that a client user interface manager executing of said client establishes a bi-directional communications channel with said server. Servers are inherently bi-directional.

Claims 27 and 28 recites a computer readable medium with substantially the same limitations as claims 22 and 23. Therefore, claims 27 and 28 are rejected under the same rationale.

Claims 29 and 30 recite a computer readable medium with substantially the same limitations as claims 19 and 20. Therefore, claims 29 and 30 are rejected under the same rationale.

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Alvesteffer whose telephone number is (571) 270-1295. The examiner can normally be reached on Monday-Friday 9:30AM-6:00PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (571)272-4048. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Stephen Alvesteffer
Examiner
Art Unit 2173




4-23-2007


RAYMOND J. BAYERL
PRIMARY EXAMINER
ART UNIT 2174